

# Victor M. Reyes Espinoza

<https://github.com/VMReyes>

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## EDUCATION

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- **Massachusetts Institute of Technology** Cambridge, MA  
*Bachelor of Science in Computer Science and Engineering; GPA: 4.7* *Aug. 2017 – Exp. Graduation June 2021*

## EXPERIENCE

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- **Google** Mountain View, CA  
*Engineering Practicum Intern* *June 2018 – September 2018*
  - **ChromeOS:** Chrome OS is an operating system designed by Google that is based on the Linux kernel and uses the Google Chrome web browser as its principal user interface.
  - **Linux Build Systems:** Updated over 20 packages on Chrome OS to their latest versions. Fixed cross-compilation issues with packages.
  - **Data Visualization:** Wrote a python script to streamline creating dependency graphs into one command.
  - **FWUPD:** Integrated FWUPD into Chrome OS by updating numerous dependencies and resolving conflicts.
- **Davis Labs @ MIT** Cambridge, MA  
*Undergraduate Research Assistant* *Dec. 2017 – June 2018*
  - **Data Science:** Developed software to parse three dimensional mass spectroscopy data. Optimized parser to utilize less than 50mb of RAM.
  - **Pyteomics:** Utilized Pyteomics library to facilitate the storage and indexing of spectra.
  - **Data Visualization:** Utilized Matplotlib to create graphs and visualize experiment data. Facilitated the navigation of 3D data while viewing 2D graphs.
- **University of California, Irvine** Irvine, CA  
*ASPIRE Team Lead Developer* *Jul 2016 – Aug. 2016*
  - **Raspberry Pi:** A single-board computer with integrated GPIO to enable rapid prototyping.
  - **Stand-alone Internet Radio:** Led the low-level development and fabrication of an infrared controlled Raspberry Pi Pandora internet radio.
  - **Linux LIRC:** Implemented the Linux LIRC libraries to enable remote control interface
  - **Fabrication Technologies:** Utilized computer aided design, laser-cutter, and 3-D printing technologies in UCI's FABWorks Lab.

## PROJECTS

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- **StayHacking:** 24 hour hackathon focused on immigrant labor equality. Led full-stack development of Glassroots homepage. Utilized Bootstrap and Javascript to create interactive and engaging website with one-click workflow. Utilized WebApp2, jinja2, and Javascript to serve the user with facts regarding the financial contributions of nearby businesses to private prison companies.
- **Google CSSI:** 3 week intensive coding boot-camp on Python, Javascript, HTML, CSS, Google Web APIs, and back-end services like AppEngine and DataStore. Led the back-end development of a web-app, mid.point, that serves the midpoint between users and relevant activities in the area. Designed and deployed an automatically generated site ([vmreyes.info](http://vmreyes.info)) to showcase photographs and life events. Implementation received a 95% on performance in Google's Lighthouse benchmark.
- **terminal-stock-ticker:** Python utility that displays real-time stock prices and provides insights on investment returns. Utilizes BeautifulSoup to scrape for stock quotes.
- **RSML Toolkit:** Python library for MMORPG economy data retrieval, analysis, and neural net forecasting. Utilizes Keras to create, train, and evaluate a neural net model. Utilizes BeautifulSoup to scrape an online wiki for item price data.
- **ITD?:** Python project demonstrating various machine learning methods for facial recognition in pictures.